

A Study On Various Methods For Building A Blockchain Development Environment: Focusing On Ethereum.

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- **Abstract:** Blockchain technology is emerging as a key infrastructure technology that will lead the fourth industrial revolution, and blockchain promises to bring about revolutionary growth in almost all fields. Blockchain technology has the potential to lead social innovation that will improve the mutual harmony and understanding of the complex structures of human society as well as various phenomena (e.g. antagonism, confrontation, ideological conflict). It is also expected to be a very important infrastructure technology that can spur innovation in many fields of human society such as politics, economy, society, and culture. This paper provides an overview of the development environment and tools for developing and distributing the blockchain platform such as main terms, Remix, Truffle, Ganache, Metamask, blockchain as a service (BaaS) and other useful information. The paper also covers several configurations for the decentralized applications (DApp) of blockchain technology, which have been recently gaining much attention. In particular, we will focus on the Ethereum platform.
- **Keywords:** Block chain, IDE, Development Environment Tool, Bitcoin, Ethereum, Smart Contract, Hyperledger, BaaS